## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for validating programs, the method comprising:

receiving a language-independent description of a computer program, the language-independent description comprising a definition module and an implementation module, the implementation module defining a class to be implemented by the program and the definition module defining an interface associated with the class;

validating the language-independent description;

generating a language-dependent program from the language-independent description, the language-dependent program comprising an the interface and a the class; and

validating the language-dependent program.

2. (Original) The method of claim 1 wherein validating the language-independent description comprises validating the syntax of the definition module and the implementation module.

- 3. (Original) The method of claim 1 wherein validating the language-dependent program comprises compiling the interface and the class.
- 4. (Original) The method of claim 1 wherein the definition module and the implementation module are represented in a meta-language or using a tree structure.
- 5. (Currently Amended) A method for validating programs, the method comprising:

receiving a language-independent description of a computer program, the language-independent description comprising a definition module and an implementation module;

validating the language-independent description;

generating a language-dependent program from the language-independent description, the language-dependent program comprising a script code section in a language that does not support interfaces; and

validating the language-dependent program.

6. (Original) The method of claim 5 wherein validating the language-dependent program comprises:

extracting language elements from the script code section; and comparing the extracted language elements with the definition module.

- 7. (Original) The method of claim 6 wherein extracting language elements comprises generating a symbol table from the script code section.
- 8. (Original) The method of claim 5 wherein generating the language-dependent program comprises:

generating language-dependent code comprising an interface and a class.

9. (Original) The method of claim 5, wherein validating the language-dependent program comprises:

extracting language elements from the script code section;
comparing the extracted language elements with the definition module;
generating language-dependent code comprising an interface and a class; and
compiling the interface and the class.

10. (Currently Amended) A method for validating programs, the method comprising:

receiving a language-independent description of a computer program, the language-independent description comprising a definition module and an implementation module;

validating the language-independent description;

generating a first language-dependent program from the language-independent description, the first language-dependent program comprising a first script code section\_
in a language that does not support interfaces;

generating a second language-dependent program from the language-dependent language-independent description, the second language-dependent program comprising a second script code section of a distinct, second kind in a language that does not support interfaces;

extracting a first set of language elements from the first script code section; extracting a second set of language elements from the second script code section; and

comparing the first set of language elements and the second set of language elements with the definition module.

11. (Currently Amended) A computer program product, tangibly embodied in aninformation carrier a computer-readable storage device, the computer program product
comprising instructions operable to cause data processing equipment to:

receive a language-independent description of a computer program, the language-independent description comprising a definition module and an implementation module, the implementation module defining a class to be implemented by the program and the definition module defining an interface associated with the class;

validate the language-independent description;

generate a language-dependent program from the language-independent description, the language-dependent program comprising an the interface and a the class; and

validate the language-dependent program.

- 12. (Original) The computer program product of claim 11, wherein the instructions to validate the language-independent description cause the data processing equipment to validate the syntax of the definition module and the implementation module.
- 13. (Original) The computer program product of claim 11, wherein the instructions to validate the language-dependent program cause the data processing equipment to compile the interface and the class.
- 14. (Original) The computer program product of claim 11 wherein the definition module and the implementation module are represented in a meta-language.
- 15. (Currently Amended) A computer program product, tangibly embodied in aninformation carrier a computer-readable storage device, the computer program product
  comprising instructions operable to cause data processing equipment to:

-6-

receive a language-independent description of a computer program, the language-independent description comprising a definition module and an implementation module;

validate the language-independent description;

generate a language-dependent program from the language-independent description, the language-dependent program comprising a script code section in a language that does not support interfaces; and

validate the language-dependent program.

16. (Original) The computer program product of claim 15, wherein the instructions to validate the language-dependent program cause the data processing equipment to:

extract language elements from the script code section; and compare the extracted language elements with the definition module.

- 17. (Original) The computer program product of claim 16 wherein the instructions to extract the language elements cause the data processing equipment to generate a symbol table from the script code section.
- 18. (Original) The computer program product of claim 15, wherein the instructions to generate the language-dependent program cause the data processing equipment to:

generate language-dependent code comprising an interface and a class.

19. (Original) The computer program product of claim 15 wherein the instructions to validate the language-dependent program cause the data processing equipment to:

extract language elements from the script code section;

compare the extracted language elements with the definition module;

generate language-dependent code comprising an interface and a class; and

compile the interface and the class.

20. (Currently Amended) A computer program product, tangibly embodied in aninformation carrier a computer-readable storage device, the computer program product
comprising instructions operable to cause data processing equipment to:

receive a language-independent description of a computer program, the language-independent description comprising a definition module and an implementation module;

validate the language-independent description;

generate a first language-dependent program from the language-independent description, the first language-dependent program comprising a first script code section in a language that does not support interfaces:

generate a second language-dependent program from the language-dependent language-independent, the second language-dependent program comprising a second

script code section of a distinct, second kind in a language that does not support interfaces;

extract a first set of language elements from the first script code section; extract a second set of language elements from the second script code section;

compare the first set of language elements and the second set of language elements with the definition module.

21. (Currently Amended) An apparatus, comprising:

and

means for receiving a language-independent description of a computer program, the language-independent description comprising a definition module and an implementation module, the implementation module defining a class to be implemented by the program and the definition module defining an interface associated with the class;

means for validating the language-independent description;

means for generating a language-dependent program from the language-independent description, the language-dependent program comprising an the interface and a the class; and

means for validating the language-dependent program.